



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION OF

Inventor(s): VIHRIALA

Appln. No.: 09 830,881

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Filed: May 2, 2001

ATTENTION: Office of Initial Patent Examination
Customer Service Center

Title: METHOD OF PROCESSING CDMA SIGNAL COMPONENTS

Date: August 7, 2001

Asst. Commissioner of Patents
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6. FINLAND 19991871 09/02/1999

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/830,881	05/02/2001	2681	1310	P 280117	6	12	2

CONFIRMATION NO. 5337

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PILLSBURY WINTHROP LLP
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FILING RECEIPT



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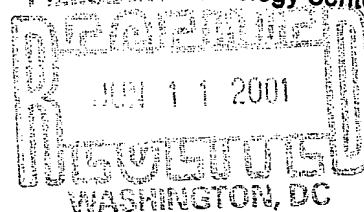
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Non-Publication Request: No

Early Publication Request: No

Title

Method of processing cdma signal components

Preliminary Class

455

Data entry by : ORDENEZ, MARTA

Team : OIPE

Date: 06/06/2001

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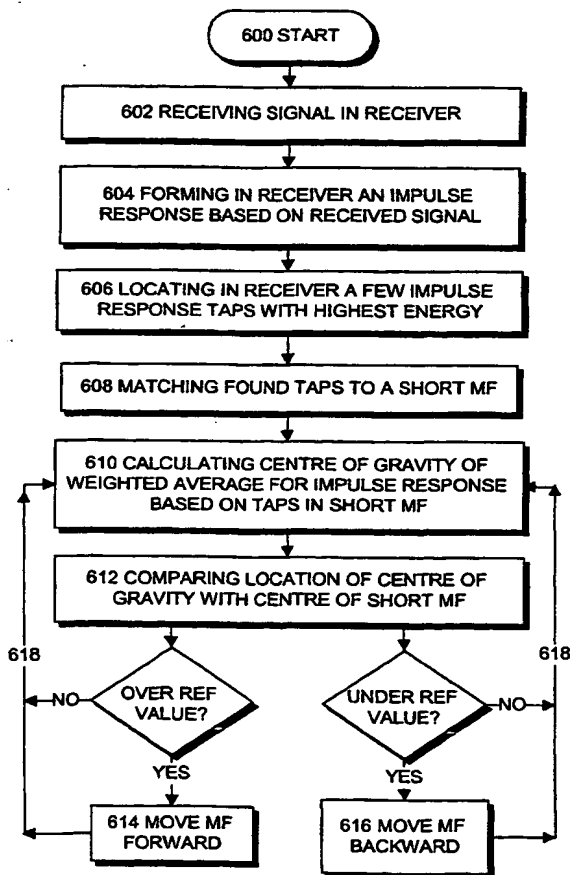
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(21) International Application Number: PCT/FI00/00739 (75) Inventor/Applicant (for US only): VIHRIÄLÄ, Jaakko [FI/FI]; Seelannintie 22 A 2, FIN-90800 Oulu (FI).
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[Continued on next page]

(54) Title: METHOD OF PROCESSING CDMA SIGNAL COMPONENTS



(57) Abstract: The invention relates to a method of processing multi-path-propagated components of a signal in a communications system. In the method, a signal transmitted on the radio channel of the communications system is received (602) in a RAKE receiver and an impulse response of the radio channel is formed (604). In the method, one or more taps having the highest signal energy in the impulse response are located (606) and matched (608) to a short matched filter. A weighting value for the impulse response is calculated (610) on the basis of the one or more taps in the matched filter and a deviation between the weighting value and the centre point of the matched filter is compared (612) with a threshold value set for the deviation. The matched filter is moved (614 to 616) toward the deviation when the deviation exceeds the threshold value set for the deviation.

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